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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 115592 ForF1/sko	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/NO 03/00357	International filing date (day/month/year) 28.10.2003	Priority date (day/month/year) 31.10.2002
International Patent Classification (IPC) or both national classification and IPC F41H1/04		
Applicant FORSVARETS FORSKNINGSINSTITUTT et al.		
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 6 sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of 12 sheets.</p>		
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the opinion</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>		
Date of submission of the demand 26.05.2004	Date of completion of this report 31.01.2005	
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465		Authorized Officer Bridge, S Telephone No. +49 89 2399-2837 

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. **PCT/NO 03/00357**

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, Pages

1-6 received on 26.11.2004 with letter of 26.11.2004

Claims, Numbers

1-5 received on 26.11.2004 with letter of 26.11.2004

Drawings, Sheets

1/5-5/5 received on 26.11.2004 with letter of 26.11.2004

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

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EXAMINATION REPORT**

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5. ☒ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

see separate sheet

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-5
	No: Claims	
Inventive step (IS)	Yes: Claims	1-5
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-5
	No: Claims	

2. Citations and explanations

see separate sheet

I Basis of the report

Rule 70.2(c) PCT :

The International Preliminary Examining Authority considers that the amendments set out below go beyond the disclosure in the international application as filed.

This report is established as if such amendment had not been made.

The amendments filed with the letter dated 26/11/2004 introduce subject-matter which extends beyond the content of the application as filed, contrary to Article 34(2)(b) PCT.

The amendments concerned are the following: removal of the term "concentrically" from claim 1 (and corresponding description page 3 line 16, and page 3 last paragraph) which originally stated that "the two elements - chin guard (3) and visor (2) - are individually pivotably connected concentrically about a point (D) on each side of the head-protecting part".

There does not appear to be a basis for distinct pivot points for the two elements - chin guard (3) and visor - in the international application as filed.

V Statement concerning novelty, inventive step & industrial applicability

1 Document D1 = US-B-6 237 161 (see especially column 2 line 19 - column 4 line 16, figures) discloses a helmet consisting of

- an outer helmet with a head-protecting part (1) which essentially covers the side, top and back of the head,
- a chin guard (3) in front of the lower part of the face and
- a transparent visor (2) which covers the field of vision of the person using the helmet, together with
- an inner helmet which is connected to the outer helmet, which inner helmet abuts against the user's head,

such that

- the two elements - chin guard (3) and visor (2) - are individually pivotably connected concentrically about a point (11) on each side of the head-protecting part,
- with the result that the visor (2) moves **outside** of the head-protecting part (1) of

the helmet and the chin-protecting part (3) of the helmet apparently moves **on the same level as the visor (2)**.

- 2 Document D2 = US-A-5 283 914 (see especially column 2 lines 66 to column 5 line 26, figures) discloses a helmet consisting of
- an outer helmet with a head-protecting part (1) which essentially covers the side, top and back of the head,
 - **no** chin guard in front of the lower part of the face and
 - a transparent visor (30) which covers the field of vision of the person using the helmet, together with
 - an inner helmet (12) which is connected to the outer helmet, which inner helmet abuts against the user's head,
- such that
- the visor (30) is **slidably and pivotably connected on supports (38)** on each side of the head-protecting part,
 - with the result that the visor (2) moves within the **inside of a front cover (9)** of the head-protecting part (1) of the helmet.
- 3 Document D3 = WO-A-00 60970 (see especially page 3 line 87 to page 6 line 180, figures) discloses a helmet consisting of
- an outer helmet with a head-protecting part (1) which essentially covers the side, top and back of the head,
 - **no** chin guard in front of the lower part of the face and
 - a transparent visor (3) which covers the field of vision of the person using the helmet, together with
 - an inner helmet which is connected to the outer helmet, which inner helmet abuts against the user's head,
- such that
- the visor (3) is individually pivotably connected about a point (O) on each side of the head-protecting part,
 - with the result that the visor (3) moves within the inside of the head-protecting part (1) of the helmet.
- 4 Document D4 = US-B-6 282 726 (see especially column 2 line 40 to column to column 5 line 22, figures) discloses a helmet consisting of
- an outer helmet with a head-protecting part (1) which essentially covers the side, top and back of the head,
 - **no** chin guard in front of the lower part of the face and

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- two transparent visors (11, 12) which covers the field of vision of the person using the helmet, together with
 - an inner helmet (30) which is connected to the outer helmet, which inner helmet abuts against the user's head,
- such that
- the two visors (11, 12) are individually pivotably connected **non-concentrically** about **respective points** (13, 14) on each side of the head-protecting part,
 - with the result that the visor (13) moves within the inside of the head-protecting part (1) of the helmet and
 - the visor (12) of the helmet moves within the visor (11).
- 5 Document D5 = US-A-5 113 535 (see especially column 1 line 60 to column 4 line 30, figures) discloses a helmet consisting of
- an outer helmet with a head-protecting part (12) which essentially covers the side, top and back of the head,
 - **no** chin guard in front of the lower part of the face and
 - two transparent visors (14, 16) which covers the field of vision of the person using the helmet, together with
 - an inner helmet which is connected to the outer helmet, which inner helmet abuts against the user's head,
- such that
- the two elements visors (14, 16) are individually pivotably connected concentrically about a point (22, 26) on each side of the head-protecting part,
 - with the result that the visor (14) moves **outside** of the head-protecting part (12) of the helmet and the visor (16) of the helmet moves **outside** the visor (14).
- 6 The subject matter of independent claim 1 satisfies the criteria set forth in Articles 33(2)-33(4) PCT because none of the available prior art discloses or suggests that the chin-protecting part of the helmet moves within the visor when the visor itself moves within the inside of the head-protecting part.
- 7 The dependent claims 2-5 concern further technical details of the invention and are carried by the inventive idea of the independent claims. Therefore, the dependent claims also satisfy the criteria set forth in Articles 33(2)-33(4) PCT.

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Helmet

5 The present invention relates to a helmet and a basic helmet concept with highly flexible construction for use in a number of different situations. The helmet can provide varying degrees of protection and can very easily alternate between the various forms of protection. In addition the individual parts of the helmet can easily be replaced.

10 Helmets are commonly known in the form of full-face helmets and half-face helmets, the difference between them being that the full-face helmet has additional protection of the area around the mouth and chin. The half-face helmet on the other hand protects only the sides and top of the head as well as to some extent the forehead and nape of the neck depending on its shape and size.

Furthermore, both full-face and half-face helmets may have a transparent visor for protecting the eyes and the face/head in the area round the eyes while at the same time permitting the person using the helmet to retain the ability to see.

15 In many cases it may be desirable not to employ the visor in order to avoid spoiling the visual experience. It may be necessary, moreover, to sometimes keep the visor in an open condition (completely or partly) in order to ensure satisfactory replacement of air in the interior of the helmet or to regulate the temperature, etc.

20 In many cases, however, it is desirable to be able to choose the degree of protection depending on whatever situation might arise. In such cases it is desirable to be able to choose between full-face and half-face helmet with and without visor in various combinations. In principle this calls for a helmet consisting of at least three parts that can be used in various combinations. These parts are; the actual head protection, chin protection (which also covers the mouth etc.) and a visor covering the field of vision.

25 In this connection various solutions are known where, for example, a loose chin guard is pivotably attached to the outside of the actual head protector, thus enabling the chin guard to be pivoted up over the head protector (often employed by motorcycle police). This may be combined with the visor. The drawback with this solution is that the chin guard has to be relatively large since its interior has to be capable of being passed over the outside of the actual head protector. In most cases, moreover, the helmet is not spherical in shape, with the result that the pivot point has to be located sufficiently high up on the side of the helmet to enable the chin guard to be moved between an inactive position over the helmet and an active position in front of the chin/mouth. This will always be a compromise and the solution has a number of disadvantages with regard to design and safety in addition to being expensive and complicated. Furthermore, the chin guard is extremely

exposed to wind and weather in the inactive position and sealing between visor and helmet is difficult to achieve both at the upper and lower edges.

5 Helmets also exist with a releasable chin guard which is mounted in clip-like holders when required. These holders may, for example, be permanently fixed on each side of the helmet. The drawback in this case is that a loose chin guard has to be brought along separately.

10 There also exist various kinds of half-face helmet with and without visor. In these solutions the visor can be pivoted between an active and an inactive position in front of the face or away from the face respectively. The pivot points are often on the side of the helmet and the visor is pivoted up on the outside of the helmet.

Prior art solutions are documented in US 6,237,161 where a helmet with a head protecting part, a chin guard and a visor is disclosed, where the chin guard and the visor are individually pivotably connected about a point on each side of the head protecting part. The chin guard however moves on the same level as the visor.

15 In US 5,283,914 a helmet is described with no chin guard and the visor is slidably and pivotably connected on supports on each side of the head protecting part.

In WO-A-00 60960 a helmet is disclosed also without the chin guard but with a visor pivotably connected and moving on the inside of the head protecting part.

20 Furthermore in US 6,282,726 is described with a head protecting part and two visors individually connected about respective points on each side of the head protecting part.

Also US 5,113,535 describes a helmet with a head protecting part with two visors pivotably connected on each side of the helmet, where the visors move on the outside of the head protecting part.

25 In many cases the police, military or civil security workers in particular require a helmet that can easily alternate between the protection offered by a full-face helmet with a visor and the security offered by a half-face helmet with or without a visor. This is required without loose parts so that the options are always available without further logistics. Furthermore, it is desirable to be able to pull down each individual
30 element of the visor or chin guard individually. It is also desirable to be able to tighten and adjust the pivotable suspension in a simple manner and to be able to replace the individual parts quickly and easily. A helmet according to the above will be highly versatile and useful. It will also be possible to employ such a helmet in a number of civil situations in connection with sport and leisure activity, driving
35 motorcycles or the like.

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Depending on the area of application, it will be appropriate to employ various inner helmets or shock-absorbing "padding" on the inside of the helmet abutting the user's head. It is therefore desirable that a helmet as indicated above should be in the form of an outer helmet employed with an inner helmet according to requirements.

It is therefore an object to provide a helmet that satisfies the above requirements. Such a helmet should be capable of offering a head-protecting part with pivotably connected chin guard and visor, which helmet can be provided on different kinds of inner helmets and "padding" or linings abutting the user's head.

- 10 According to the present invention, therefore, a helmet is provided consisting of an outer helmet with a head-protecting part which substantially covers the side, top and back of the head, a chin guard in front of the lower part of the face and a transparent visor that covers the field of vision of the person using the helmet, together with an inner helmet that is connected to the outer helmet, which inner helmet abuts against
- 15 the user's head. The helmet is characterised in that the two elements - chin guard and visor - are pivotably connected about a point on each side of the head-protecting part with the result that the visor moves within the inside of the head-protecting part of the helmet and the chin-protecting part of the helmet moves within the visor. Thus the visor and the chin guard are moved according to a roof
- 20 tile principle where the bottom part (the chin guard) is located furthest in. This ensures that rain water etc. can easily flow over the outside of the helmet. It is also possible to design the various parts of the helmet in this manner so as to provide an exterior without external parts (or with a minimum thereof) which can become tangled or be damaged.
- 25 Furthermore, in the preferred embodiment a clutch mechanism is installed between the visor and the chin guard, thus permitting individual movement of neck protector and visor about the pivot point on the head-protecting part of the helmet. It is thereby possible to pull down the visor and the chin guard individually in any order. An embodiment of such a clutch is a plate mounted between the visor and the chin
- 30 guard at the mounting point on each side of the helmet, which plate is fixed relative to the rotational motion. This may be implemented in several ways, either by fixing it to the attachment point or attaching it in some other fashion to the helmet's head-protecting part. Both the visor and the chin guard will thereby be able to move individually without influencing the other of the two elements. This of course
- 35 depends on the two parts fitting together correctly in other respects so that they do not touch each other when moving.

In a further embodiment the chin guard and visor are pivotably connected concentrically about a point on each side of the head-protecting part.

In a further embodiment, stoppers may be provided on the clutch plate or on the inside of the helmet to limit the travel or rotational motion of the visor and the chin guard so that they only travel between predefined extreme points. This will prevent the visor from moving down towards the chin etc. Since the visor and the chin guard move on each side of the clutch plate, a stopper is provided on each side for engagement with the visor (on the outside against the helmet's head-protecting part) and engagement with the chin guard (on the inside against the interior of the helmet) respectively. Furthermore, on the visor and the chin guard in the area of the rotational suspension on each side of the helmet there are provided grooves or countersinkings which engage with each of the stoppers on the clutch plate.

The pivot point and the attachment point for the visor and the chin guard are, for example, a bolt, lug, pin or the like which are through-going or attached to the interior of the helmet, with a self-locking nut that keeps the helmet, the visor and the chin guard together. In an embodiment, the nut may be in the form of a large wheel which enables a person to operate the nut with his hands in order to adjust the mechanism or to replace parts of the mechanism or the helmet such as a broken visor or the like. It is also possible to employ friction-generating discs between the clutch plate and the visor and the chin guard for regulation of the resistance that has to be overcome in order to move the visor and the chin guard. Such friction discs are regulated substantially by tightening or slackening the connection holding (clamping) the parts together about the axis of rotation, which in a number of embodiments will be the self-locking nut.

In yet another embodiment the nut may be provided with depressions or projections which are either elastic or engage with an elastic element which restricts the nut's free rotation. This prevents inadvertent movement of the mechanism.

In a further embodiment, on the inside in the front edge of the head-protecting part, there is provided a bar or strip which abuts flexibly against the outside of the visor. Thus when the visor is moved up or down inside the head-protecting part of the helmet, the outside is wiped clean of water or the like in the manner of a windscreen wiper.

Furthermore, in different embodiments sealing elements may be provided between the visor and the helmet as well as between the chin guard and the visor in order to prevent the penetration of moisture and dust. Thus with the visor and chin guard pulled down, the helmet will provide good protection against dust, rain, etc.

In an embodiment the helmet's head-protecting part has a partial spherical shape and the visor and chin guard match this spherical shape possibly with adaptation of size to enable them to be moved on the inside of the helmet. In further alternative embodiments the visor and the chin guard can be moved within an outer layer of the helmet. This may be necessary in order to achieve the required degree of protection,

for optimal exploitation of materials or for expedient positioning of the movable parts relative to, e.g., the attachment for the inner helmet. In this case the helmet's head-protecting part can be constructed as a two-layered helmet structure over the whole or parts of the helmet's head-protecting part.

- 5 In a further preferred embodiment, moreover, the visor and the chin guard have matching shapes, thus achieving maximum protection of the chin and the lower part of the head, while ensuring a good view from the visor. In such embodiments the central part of the chin guard at the mouth/nose is generally pulled up so as to cover the nose. Furthermore, the visor covers each side of the raised portion at nose and
- 10 mouth in order to ensure a good view downwards.

For military use an outer shell is required for the helmet, preferably combined with extra camouflage measures, and both for military and other use, e.g. fire/rescue, it may be appropriate to affix/integrate in the outer shell light sources, a camera, night/low light aids, communication means, etc.

- 15 In the attached figures, moreover, an example is illustrated of a helmet according to the present invention.

Figure 1 is a side view of a helmet according to the present invention.

Figure 2 is a perspective view of the helmet illustrated in fig. 1.

Figure 3 is an illustrated side view of the helmet depicted in figs. 1 and 2.

- 20 Figure 4 is a front view of the helmet in the preceding figures.

Figure 5 is an exploded view of the different parts of the helmet.

Figures 6, 7 and 8 illustrate a helmet according to the present invention in various positions of use.

Figure 9 illustrates details of the helmet depicted in the preceding figures.

- 25 In figures 1, 2, 3 and 4 a helmet is illustrated according to the present invention, which helmet comprises a head-protecting part 1 which covers the top, sides and back of the head. The helmet further comprises a visor 2 and a chin-protecting part 3, both of which are pivotable concentrically about a pivot point on each side of the helmet. The visor 2 is also provided with a lug on each side which makes it easier
- 30 for the user of the helmet to get hold of the visor when it is pushed up into the interior of the helmet. Similar lugs may easily be placed on the chin-protecting part.

As will be apparent in the figures, both the visor and the chin guard can be moved individually up and down independently of each other according to a "roof tile" principle, i.e. the chin guard moves into the visor which in turn moves into the

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helmet's head-protecting part. Water etc. from above will thereby flow over the outside of all the parts of the helmet.

In figure 4 there is further illustrated a preferred clutch mechanism 5 at each pivot point for the visor 2 and the chin guard 3. The clutch mechanism illustrated consists essentially of a plate 7 with lugs 6 and 8 which control the movement, i.e. upper and lower limits for the visor 2 and the chin guard 3 respectively. The construction of the pivot point is not illustrated in greater detail, but this is evident from the description above. Various other kinds of clutch mechanisms that permit individual rotation may of course also be employed.

Figure 5 further illustrates in exploded form how the helmet's various parts can be designed. Here the helmet's head-covering part 1, the visor 2 and the chin-protecting part 3 with the raised portion at the nose/mouth 3' are illustrated as indicated above.

The lug 4 on the visor is also indicated. The pivot point in each of the pivotably mounted parts is further indicated by D. Furthermore, sections 9 and 10 are illustrated where the lugs (6 and 8 respectively) are engaged in order to control the rotational motion's extreme points.

Figures 6 and 7 illustrate different combinations of the various parts of the helmet. As can be seen, both visor and chin guard are pushed into the helmet. The chin guard 3 can be folded down alone or together with the visor 2. The visor 2 may also be folded down on its own (not shown).

In figures 8 and 9, moreover, an embodiment is illustrated of the self-locking nut 11 or other locking/tightening device for the rotational connection between the helmet's various parts. The outer edge of the nut 11 is further restricted by the lug 12 on the clutch.

Various other embodiment of a clutch etc. may of course be employed without departing from the inventive concept indicated in the following patent claims.

The attachment points for the inner helmet are not further specified, but they will be retracted to prevent them from coming into conflict with the visor and the chin guard when they are pushed up.

PATENT CLAIMS

1. A helmet consisting of an outer helmet with a head-protecting part (1) which essentially covers the side, top and back of the head, a chin guard (3) in front of the lower part of the face and a transparent visor (2) which covers the field of vision of the person using the helmet, together with an inner helmet which is connected to the outer helmet, which inner helmet abuts against the user's head, characterised in that the two elements - chin guard (3) and visor (2) - are individually pivotably connected about a point (D) on each side of the head-protecting part, with the result that the visor (2) moves within the inside of the head-protecting part (1) of the helmet and the chin-protecting part (3) of the helmet moves within the visor (2).
2. A helmet according to claim 1, characterised in that at the visor (2) and the chin guard (3) there is provided a clutch mechanism (5) which permits individual movement of chin guard (3) and visor (2) about the pivot point (D) on the head-protecting part (1) of the helmet.
3. A helmet according to claims 1-2, characterised in that the pivot point and the attachment point for the visor and the chin guard is a bolt connection with a self-locking nut.
4. A helmet according to claims 1-3, characterised in that on the inside in the front edge of the head-protecting part there is provided a bar or strip which abuts flexibly against the outside of the visor.
5. A helmet according to claim 1-4, characterised in that the two elements - chin guard (3) and visor (2) - are individually pivotably connected concentrically about a point (D) on each side of the head-protecting part



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Fig.1.

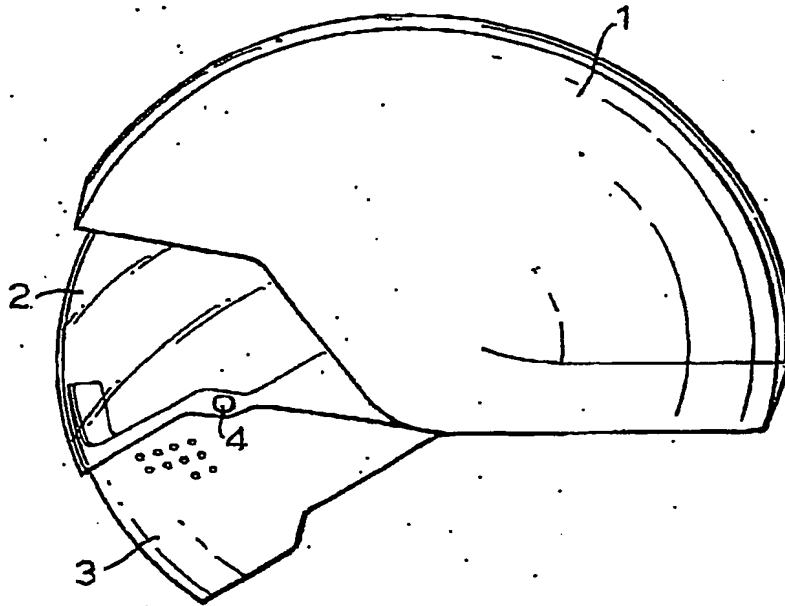
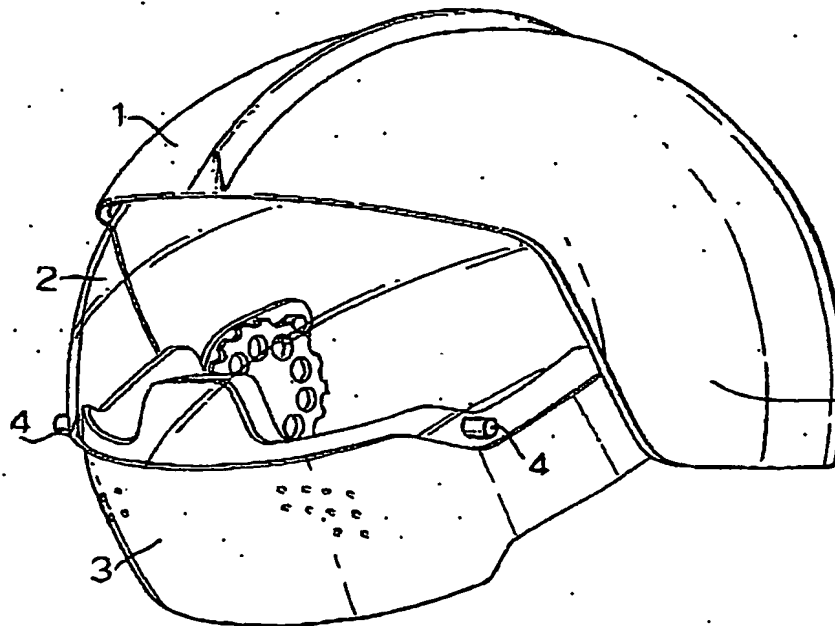


Fig.2.



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Fig.3.

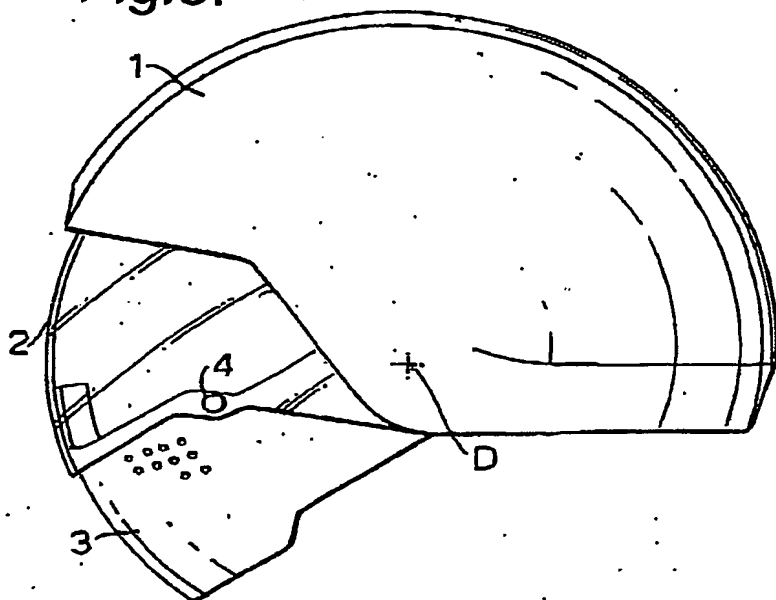
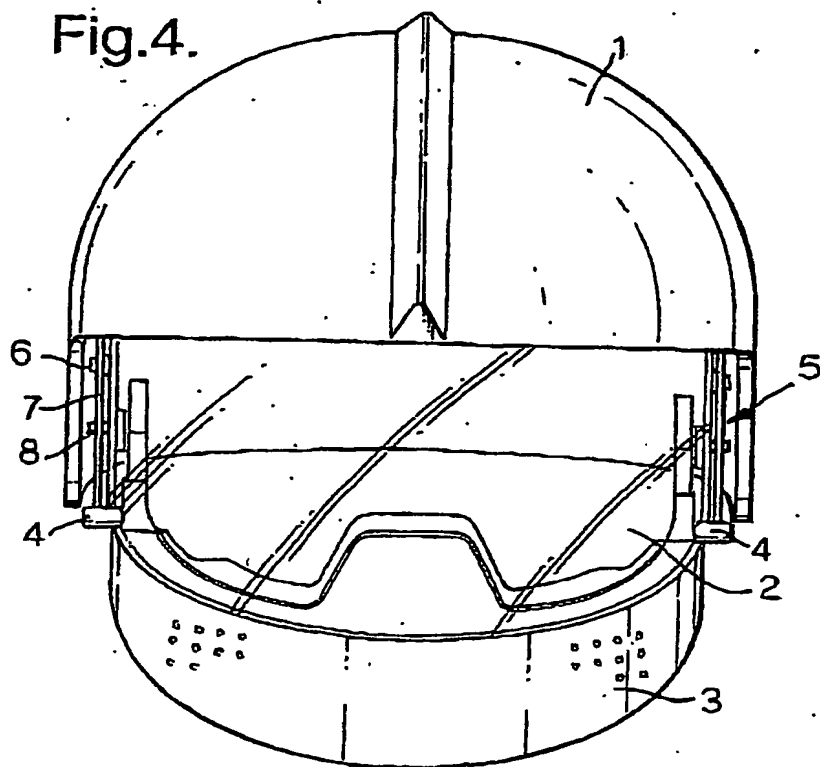


Fig.4.



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Fig.5.

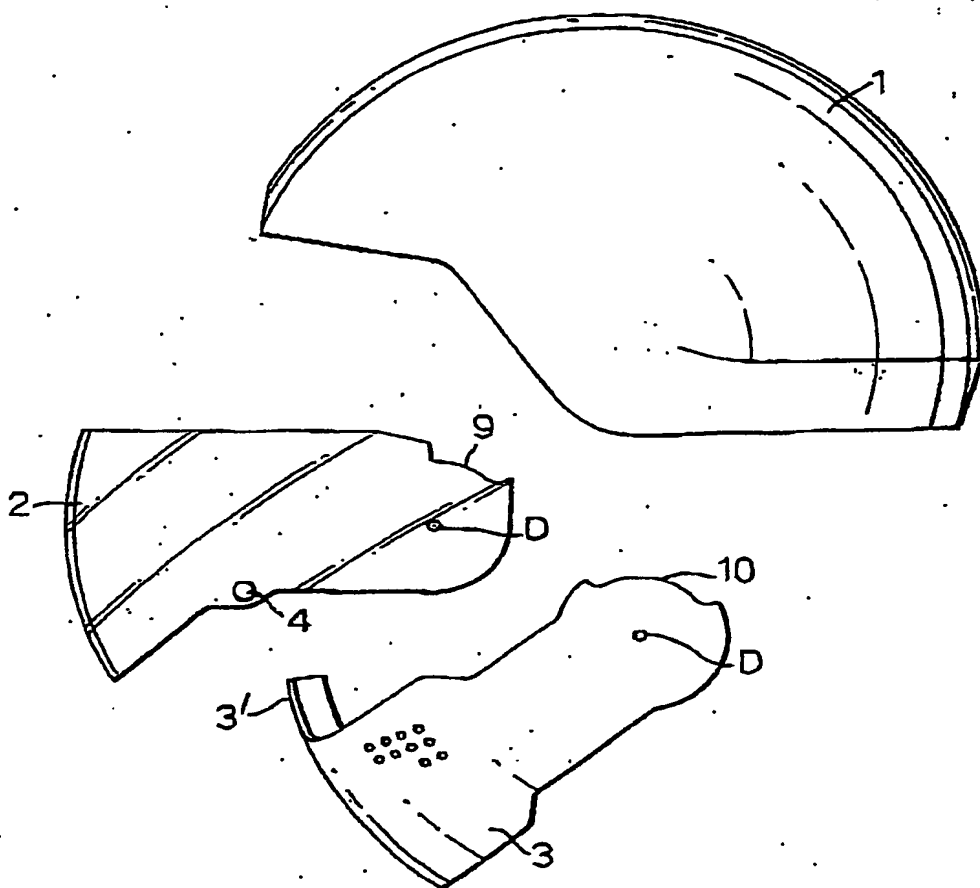
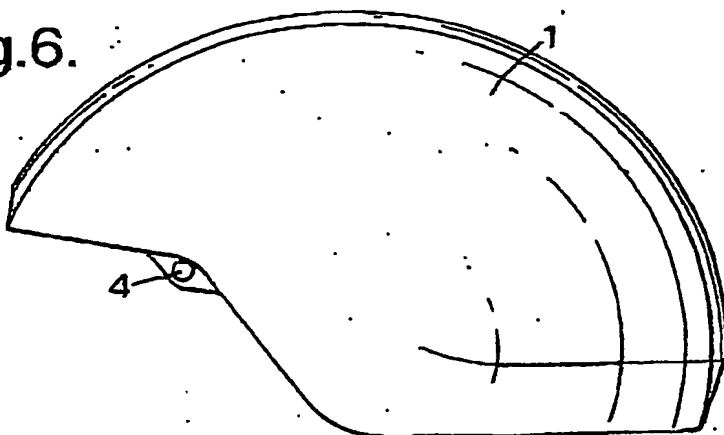


Fig.6.



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Fig.7.

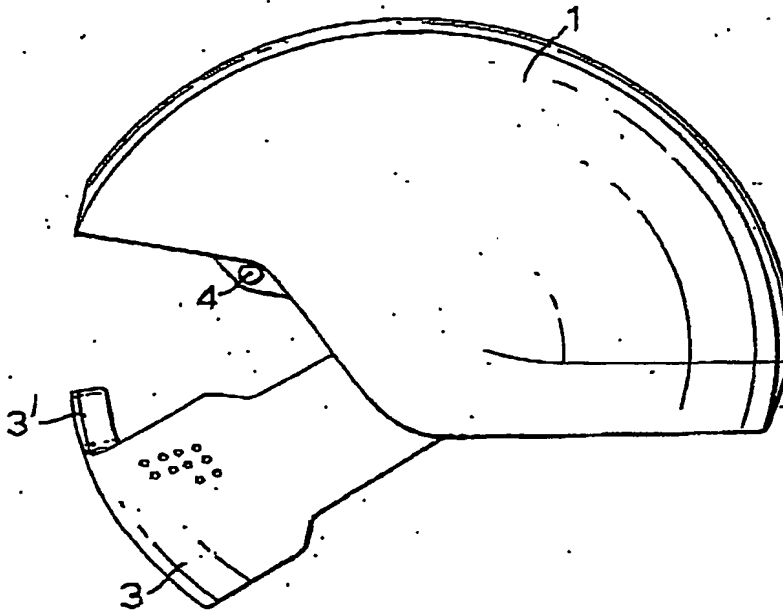
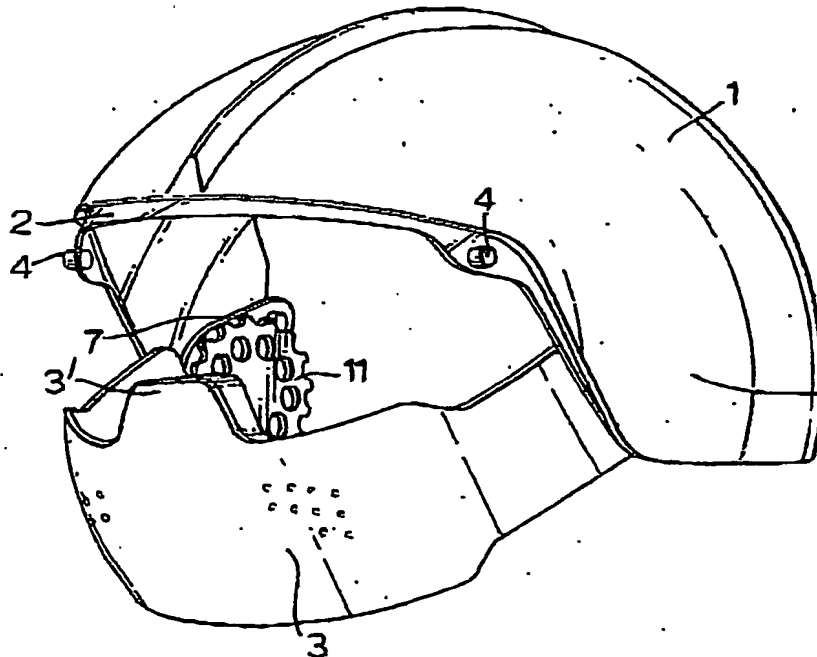
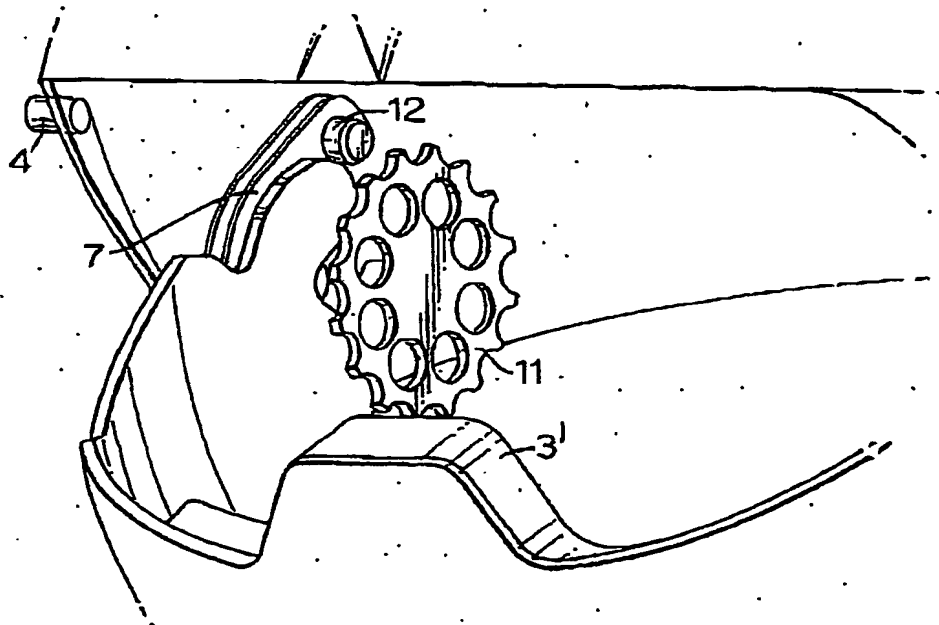


Fig.8.



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Fig.9.



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